# **Downey's BMP Strategy for Managing Stormwater Runoff**

What Do the MS4 Permit Annual Reports Tell Us About BMPs?

them California Association of Governments Mater Policy Task Force Meeting of March 9, 2006

## MS4 Permit (Order 01-182)

- adopted December 13, 2001
- rration with 2006 renewal.
- res permittees to submit an Annual Report Total Maximum Daily Loads (TMDLs)
- opted for 2006 MS4 Permit implementation
- Standard Urban Stormwater Mitigation Plan (SUSMP) is important tool for future structural BMP implementation/installation
- So what are the municipalities doing?





### **Best Management Practices (BMPs)**

Many actions, devices, structures, etc.

#### Among the more prevalent

- Public Education (brochures, PS spots, hits)
- Trash cans (more, covered, recycling, etc.)
- Street/lot sweeping (more, vacuum, focused)
- Inserts (screens, absorbents, biocides, filters)
- Diversions, trash nets, ↓ materials exposure
- Advanced treatment systems (RO, GAC, etc.)
- Decrease runoff and increased infiltration

# **BMPs Installed During Period**

#### All Watersheds-All Adencies

- Pre July 2002 1,029
- July 2002 to June 2003 >52 cities 2,780
- July 2003 to June 2004 59 cities 5,829
- July 2004 to June 2005 70 cities 23,697

#### All Watersheds, excluding LA City/County

- July 2003 to June 2004 4,<u>487</u>
- July 2004 to June 2005 20,268

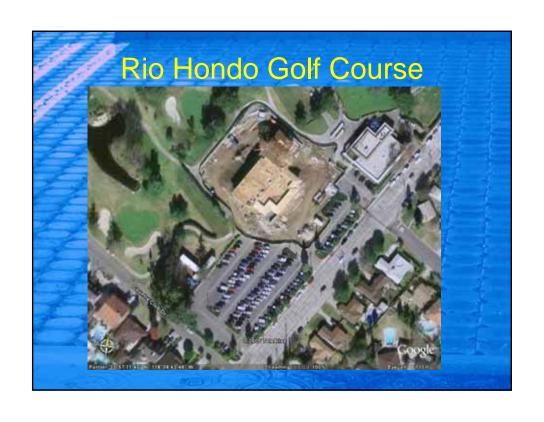
# Selective BMP Analysis

- Subtract 16,000 covered trash cans from one city in 2004-05
- Subtract 1,343/1,400 parking spaces steam cleaned in 2003-04/2004-05 by one city
  - Pre July 2002

- 1,029
- July 2002 to June 2003 >52 cities 2,780
- July 2003 to June 2004 59 cities 3,144
- July 2004 to June 2005 70 cities 2,868
- WE ARE STILL LEARNING ABOUT BMPs

# Infiltration Devices in Downey

- Planters, swates and basins
- Porous surfaces
- Inverted street/parking lot cross sections
- Surface/underground rock trenches
- Perforated pipe, French drain systems.
- Cultec®, Rainstore³®, Stormtech®
- "Forensic" review, "good BMPs, gone bad"





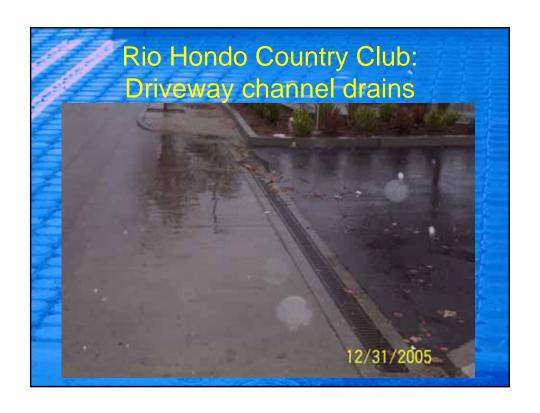












# 8500 Firestone Boulevard Commercial Complex Inverted parting for design Depressed landscaped medians Rock transitions and check dams Turl grass strate Filter fabric covered inlets Stormtech® intiltration Watershed specific marker discs Avoided TPH plume (almost gBMPgb)





























